

**TECHNIQUES FOR PERMITTING ACCESS ACROSS A
CONTEXT BARRIER ON A SMALL FOOTPRINT DEVICE
USING RUN TIME ENVIRONMENT PRIVILEGES**

Abstract of the Disclosure

A small footprint device can securely run multiple programs from unrelated vendors by the inclusion of a context barrier isolating the execution of the programs. The context barrier performs security checks to see that principal and object are within the same context or to see that a requested action is authorized for an object to be operated upon. Each program
5 or set of programs runs in a separate context, however, one context has access to all program modules without context barrier constraints.